### "APPROVED FOR RELEASE: 08/09/2001 C

CIA-RDP86-00513R001860720018-8

Complex Compounds of Bivalent Platinum With Glycocoll

S/078/60/005/009/022/040/XX B017/B058

ASSOCIATION:

Dnepropetrovskiy khimiko - tekhnologicheskiy institut

im. F. E. Dzerzhinskogo

(Dnepropetrovsk Institute of Chemical Technology imeni

F. E. Dzerzhinskiy)

SUBMITTED:

June 16, 1959

Card 3/3

VOLSHTEYN, L.M.; MOGILEVKINA, M.F.

Complex compounds of divalent platinum with 1,7aminoenanthic acid. Zhur.neorg.khim. 5 no.7:1445-1448 J1 '60. (MIRA 13:7)

 Dnepropetrovskiy khimiko-tekhnologicheskiy institut. (Platinum compounds) (Hertanoic acid)

### VOLSHTEYN, L.M.

Different course of the Jorgensen cleavage of noncyclic compounds of divalent platinum with - and -amino acids. Zhur.neorg.khim. 5 no.7:1449-1453 J1 60.

(MIRA 13:7)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F.E.Dzerzhinskogo.

(Platinum compounds) (Amino acids)

### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8

VOLSHTEIN, L.M.: VOLODINA, I.O.

New data on complexes of divalent platinum with glycocol. Zhur. neorg.khim. 5 no.1:35-38 Ja '60. (MIRA 13:5)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut in. F.E.Dzershinskogo. (Platinum compounds) (Olycine)

5.2620 AUTHORS: Volshteyn, L. M., Volodina, I. O. 5/020/60/131/02/026/071 B011/B005 TITLE: The Cis-isomer of the Inner Complex Salt of Bivalent Platinum With PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 2, pp 309-311 (USSR) The compound H2PtGl4 (GlH = glycocoll), on heating with water, is nearly quantitatively transformed into the cis-isomer of the inner ABSTRACT: complex salt (4) (Ref 3). In contrast to glycocoll, this does not apply to AnH (alanine) in which case only the trans-isomer of [PtAn2] is formed (Ref 4). Among the 3 simplest members of the homologous series of d-amino acids only the cis-isomer of the inner complex salt of AnH remained unknown. Now the authors tried its synthesis. When acid is added to the K2 PtAn4 solution, H2PtAn4 does not precipitate. This compound must, however, be present in the solution, and can be transformed into cis-[PtAn2] on heating. The cooling of the solution produced an abundant white precipitate. It was pure cis-[PtAn2] with a 30% yield. Its properties differ considerably from those of trans-[Ptan2]. The solubility of the cis-isomer in water is about 14 times higher than Card 1/3 that of the trans-isomer. On addition of concentrated HCl to the

The Cis-isomer of the Inner Complex Salt of Bivalent Platinum With  $\alpha$ -Alanine

68987 S/020/60/131/02/026/071 B011/B005

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cis-isomer the original precipitate disappears at once and completely. A bright yellow solution forms. On the other hand, the trans-isomer with HCl becomes slightly yellowish but does not pass over into the solution. The cis-dichloride forms with an 80% yield. The alanine rings in the inner complex salts are ruptured by the action of HCl. Both dichlorides (trans- and cis-) are dibasic acids. The cis-dichloride is much better soluble in water than the transisomer. Both are poorly soluble in concentrated HCl. The transichloride is better soluble in ether. Both isomers behave differently to thiourea and other reagents. Thus, both isomers [PtA2] (AH - monobasic amino acids) were obtained for all three simplest capations acids. The compound H2PtAn4 from which the authors have probably produced the cis-isomer was also obtained in a small quantity, and will be described later on. A. A. Grinberg and B. V. Ptitsyn are mentioned. There are 6 Soviet references.

ASSOCIATION:

Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F. E. Dzerzhinskogo (Dnepropetrovsk Institute of Chemical Technology imeni F. E. Dzerzhinskiy)

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### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8

The Cis-isomer of the Inner Complex Salt of Bivalent Platinum With ≪-Alanine

**S/0**20/60/131/02/026/071 B011/B005

PRESENTED: November 21, 1959, by A. A. Grinberg, Academician

SUBMITTED:

November 19, 1959

Card: 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8" .5(2)
AUTHORS:

Volshteyn, L. M., Anokhova, L. S.

SOV/78-4-2-13/40

TITLE:

The Inner Complex Salt of Bivalent Platinum With Asparagine (Vnutrikompleksnaya sol' dvukhvalentnoy platiny s asparaginom)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2, pp 325-329 (USSR)

ABSTRACT:

The interaction of K<sub>2</sub>PtCl<sub>4</sub> with an asparagine excess was investigated in an acid and an alkaline medium. In an alkaline medium only the complex of divalent platinum with asparagine is formed which has the following composition:

Pt--(NH<sub>2</sub>-CH-CH<sub>2</sub>-CONH<sub>2</sub>)

This salt is a genuine inner complex salt with cis-configuration. On an interaction of K2[PtCl4] with asparagine in an

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 $[Pt(aA)_2]$ , [Pt(aA)(AspH)], and  $[Pt(AspH)_2]$ . In these formulas asparagine is expressed as aAH, aspartic acid as AspH<sub>2</sub>, the

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

sov/78-4-2-13/40

The Inner Complex Salt of Bivalent Platinum With Asparagine

anions of these compounds as aA, AspH, and Asp<sup>2-</sup>. Asparagine bound in the platinum complex saponifies faster than free asparagine. The saponification in the alkaline medium proceeds according to the following equations:

 $NH_2CH(COO)CH_2CONH_2 + OH \longrightarrow NH_2CH(COO)CH_2COO + NH_3$  (5)

respectively:  $\begin{bmatrix}
Pt & -NH_2 - CH - CH_2 - CONH_2 \\
0 - CO
\end{bmatrix}_2^2 + 2O\overline{H}$ Pt  $\begin{bmatrix}
-NH_2 - CH - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
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0 - CO
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0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
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\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
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0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 - CH_2 - COO \\
0 - CO
\end{bmatrix}_2^2 + 2NH_2 - CH_2 -$ 

The properties of the inner complex salt  $[Pt(aA)_2]$  are described in detail. The electric conductivity in aqueous solutions was determined and the results showed that the complex is undissociated at low temperatures. On heating, slight electric conductivity of the solution occurs which is probably caused by the saponification of asparagine. A dichloride of the composition  $[PtCl_2(aAH)_2]$  is formed by the

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SOV/78-4-2-13/40

The Inner Complex Salt of Bivalent Platinum With Asparagine

effect of hydrochloric acid. The salt  $[Pt(aA)_2]$  has cisconfiguration. In a HCl-medium the complex reacts with thiourea while  $[Pt(thio)_4]$  Cl<sub>2</sub> is formed; thus the cisconfiguration is proved. There are 11 Soviet references.

ASSOCIATION:

Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F. E. Dzerzhinskogo (Dnepropetrovsk Chemo-technological Institute imeni F. E. Dzerzhinskiy)

SUBMITTED:

November 3, 1957

Card 3/3

5(2) AUTHORS:	Volshteyn, L. M., Motyagina, G. G. SOV/78-4-9-11/44
TITLE:	The Inner-complex Salts of Trivalent Chromium With Serine and Asparagine
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 9, pp 1995-1999 (USSR)
ABSTRACT:	Hitherto complex salts of Cr III with serine were unknown. At n > 3 (n = ratio of serine in moles to Cr in gram-atoms), CrCl 3
	was completely converted to complexes of the type $ \left[ \text{Cr}(\text{SerH})_n(\text{H}_2\text{O})_{6-n} \right]^{3+} \text{ by boiling with serine. These complexes } \\ \text{were not decomposed by ammonia. A purple precipitate of the } \\ \text{composition } \left[ \text{Cr}_2 \text{Ser}_4(\text{OH})_2 \right] \text{ gradually formed on addition of KOH.} \\ \text{For this reaction the following equation was assumed:} $
	$2\left[\text{Cr}\left(\text{SerH}\right)_{4}\left(\text{H}_{2}^{0}\right)_{2}\right]^{3+} + 60\text{H}^{-} \longrightarrow \left[\text{Cr}_{2}\text{Ser}_{4}^{-}\left(\text{OH}\right)_{2}\right] + 4\text{SerH} + 8\text{H}_{2}^{0}$
Card 1/3	As this compound is not an electrolyte it does not represent a chromium salt, the structure of the complex being similar to the

The Inner-complex Salts of Trivalent Chromium With Sov/78-4-9-11/44 Serine and Asparagine

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The Inner-complex Salts of Trivalent Chromium With SOV/78-4-9-11/44 Serine and Asparagine

of asparagine could be recrystallized without suffering change, which shows that it is more stable than the corresponding compound of glycine and alanine. There are 13 references, 8 of which are Soviet.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F. E.

Dzerzhinskogo (Dnepropetrovsk Institute of Chemical Technology
imeni F. E. Dzerzhinskiy)

SUBMITTED: June 7. 1958

Card 3/3

5 (2) AUTHORS:

Volshteyn, L. M., Anokhova, L. S.

SOV/78-4-8-6/43

TITLE:

Isomeric Inner Complex Salts of Divalent Platinum With

Aspartic Acid (Izomernyye vnutrikompleksnyye soli dwukhwalent-

noy platiny a asparaginovoy kielotoy)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8,

pp 1734 - 1740 (USSR)

ABSTRACT:

A. A. Grinberg and N. N. Kats described the complex compounds of divalent platinum with dibasic aminoacids (Ref 1) and its inner complex salts with glutamic and aspartic acid. In an earlier paper (Ref 2) the authors determined the cis- or transstructure of the platinum aspartic acid complex obtained accord-

MH2-CH-CH2-COOH ing to the method of production: CO-O

(trans-form) \_CO\_ CO HOOC-H,C-HC-H,N

NH2-CH-CH2-COOH HOOC-H2C-HC-H2N

(cis-form)

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In the present paper the production of the two isomers is de-

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SOV/78-4-8-6/43 Isomeric Inner Complex Salts of Divalent Platinum With Aspartic Acid

> scribed (trans-form from K2PtCl4 and aspartic acid, cis-form by saponification of the platinum-aspartic complex). The transconfiguration was proved by the reaction with thiourea (yellow precipitate), by conversion into the compound trans-[Pt(NH3)2-Cl2 and by reaction with ethylene diamine. The cis-configuration was determined by the reaction with thiourea (white precipitate). Furthermore, the behaviour of the two isomers towards Ba2+ and Ca2+, HCl, NH, and ethylene diamine was described. The isomers differ from one another by the fact that the trans-isomer forms insoluble compounds (Table 1). There are 1 table and 5 Soviet references.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F. E. Dzerzhinskogo (Dnepropetrovsk Institute of Chemical Technology imeni F. E. Dzerzhinskiy)

SUBMITTED:

July 11, 1958

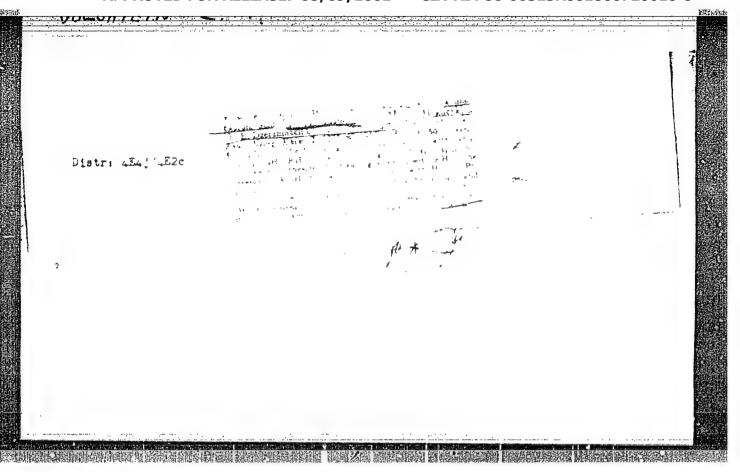
Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8" VOLSHTEYN, L.M.; ANDKHOVA, L.S.

Inner complex salt of divalent platinum with asparagine. Zhur.neorg. (MIRA 12:3) khim. 4 no.2:325-329 F'59.

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E.
Dzerzhinskogo.
(Platinum compounds) (Asparagine)

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### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8

VOISHTEYN, L.M.; VELIKANOVA, N.S. Cis and trans isomers of bivalent platinum intercomplex salt with MARKET THE FROM THE Aminobutyric acid. Zhur. neorg. khim. 2 10:2383-2389 0 157. (MIRA 11:3) 1. Dneprovskiy khimiko-tekhnologicheskiy institut im. F.E. Dzerzhinskogo. (Platinum) (Isomers) (Butyric scid)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8" VOLSHTEYN, L.M.; SIJUTSKAYA, M.M.

Some of the imidosulfamide salts. Part 2. Zhur. ob. khim. 27 no.ll:
2913-2916 M '57.

1. Dnepropetrovskiy metallurgicheskiy institut.
(Sulfamide) (Nickel salts) (Zinc salts)

AUTHORS:

Volshteyn, L. H., Slutskaya, H. H.

79-11-1/56

TITLE:

On Some Salts of Imidosulphamide. II. (O nekotorykh solyakh imi-

dosul'famida.II).

PERIODICAL:

Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, pp. 2913-2916

(USSR)

ABSTRACT:

In connection with the barium-, silver- and copper salts of imidosulphamide (NH2SO2)2NH(HIm) earlier produced by the authors the same authors synthesized and investigated several others of its salts. The found that the behavior of the acid residue (NH2SO2)2 N (Im) in the salts is essentially dependent on the nature of the cation connected with it. The nickel- and zinc-salts are described here, with some supplementary data on the copper salt. The nickel salt was obtained by the authors from BaIm2 and NiSO4, in equimolecular quantities. The calculated volume of the titrated NiSO4 solution was put to the BaIm2 dissolved in water and completely analyzed, then filtered from BaSO4-precipitated and the filtrate evaporated in a vacuum at a room temperature of 60 - 70°C. For producing the zinc salt the authors mixed the concentrated solutions of the BaIm2- and ZnSO4- salts in equinolecular quantities and obtained the final product in a similar manner as above with. the nickel salt (details in the experimental part). Thus the ini-desulphamidate of nickel (the dehydrated salt Ni N(SO2NH2) 2 and

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#### "APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8

On Some Salts of Imidosulphamide II.

its dihydrate) and the imidesulphamidate  $2n\left[\mathbb{N}(50_2\mathbb{NH}_2)_2\right]_2$  2H2O. were synthesized. It became evident, that after a longer time of shaking with alcohol the imidosulphamidate of sinc to sulphate. The crystallohydrate of nickel sulphamidate, however, is o'l,

dehydrated. There are 2 Slavic references.

ASSOCIATION: Depropetrovsk Metallurgical Institute

(Dnepropetrovskiy metall-

urgicheskiy institut).

October 6, 1956 SUBMITTED:

AVAILABLE: Library of Congress.

1. Imidosulphamide salts-Chemical analysis

2. Imidosulphamide salts-Synthesis

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860720018-8

VOL'SHTEYN, L.M.; MCGILEVKINA, M.F.

Isomeric compounds of divalent platinum with & aminocaproic acid. Zhur.neorg.khim. 2 no.6:1275-1280 Je '57. (MIRA 10:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. F.E.

Dzerzhinskogo.

(Platinum organic compounds)

(Hexanoic acid)

8/078/60/005/007/020/043/XX B004/B060

5 2137

AUTHORS:

130 200 1202

DD. 1445 - 1448

Volshteyn, L. M., Mogilevkina, M. F.

TITLE: Complex Compounds of Bivalent Platinum With 1,7-Amino-

enanthic Acid

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 7,

TEXT: The authors had previously studied the complex compounds of Pt<sup>II</sup> with 1,3-, 1,4-, and 1,6-amino acids. The present article deals with complex compounds of Pt<sup>II</sup> with 1,7-amino-enanthic acid. The authors attempted to obtain trans-[PtE<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub>] (E = NH<sub>2</sub>(CH<sub>2</sub>)<sub>6</sub>COO-) in order to study the Jörgensen splitting on it. The reaction of potassium chloroplatinite in alkaline medium with all a-amino acids (A) took place according to equation  $K_2$ PtCl<sub>4</sub> + 4AH + 4KOH =  $K_2$ PtA<sub>4</sub> + 4H<sub>2</sub>O + 4KCl. With amino-enanthic acid, the authors obtained  $K_2$ PtE<sub>4</sub>, from whose solution [Pt(EH)<sub>4</sub>]Cl<sub>2</sub> was precipitated by means of concentrated HCl. A long ebullition with HCl Card 1/2

Complex Compounds of Bivalent Platinum With S/078/60/005/007/020/043/XX 1,7-Aminoenanthic Acid B004/B060

X

yielded trans- $[Pt]NH_2(CH_2)_6CO_2H_2Cl_2$ , which was separated from the admixed cis-compound by means of NH<sub>3</sub>, and trans- $[Pt]NH_2(CH_2)_6CO_2(2(NH_3)_2]$  was formed in the process. The latter compound is difficultly soluble in water, and insoluble in alcohol and ether. It was subjected to the Jörgensen splitting by way of boiling with HCl, and the resulting products were trans- $[Pt(NH_3)_2Cl_2]$  and trans- $[Pt(EH)_2Cl_2]$ . While the examined 1,2-amino acids were found to yield up to 90% trans- $[Pt(NH_3)_2Cl_2]$ , only 22% of it was found for 1,6-aminocaproic acid, and only 20% for 1,7-aminoenanthic acid. There are 9 Soviet references.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Institute of Chemical Technology)

SUBMITTED: February 7, 1959

Card 2/2

8/078/60/005/007/021/043/XX B004/B060

AUTHOR: Volshteyn, L. M.

TITLE: Different Courses of the Jörgensen Splitting of Acyclic Compounds of Bivalent Platinum With α- and ω-Amino Acids ?

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 7, pp. 1449 - 1453

TEXT: The author reports on his study of the Jörgensen splitting of trans- PtB D Cl which takes place according to the following scheme:

2B + C1 D B D B C1
2B + Pt C12 Pt + 2D. The investigation was conducted

for the complex compounds of PtII with the following amino acids (A = ion of amino acid, AH its molecule): glycocoll(GlH);  $\alpha$ -alanine(AnH);  $\alpha$ -aminobutyric acid (BH);  $\alpha$ -amino isocaproic acid (leucine) (LH);  $\beta$ -aminopropionic acid ( $\alpha$ -alanine) ( $\beta$ H);  $\beta$ -aminobutyric acid ( $\alpha$ H);  $\beta$ -amino caproic acid ( $\alpha$ H), and 1,7-aminoenanthic acid (EH). The resulting

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Different Courses of the Jörgensen Splitting S/078/60/005/007/021/043/XX of Acyclic Compounds of Bivalent Platinum B004/B060 With  $\alpha$ - and  $\alpha$ -Amino Acids

AH NH3 Cl were titrated, and the difficultly soluble diammine NH3 NH3 AH Cl

Pt Of the dichloride AH Cl was filtered off. The following Cl AH

data were obtained for the Jörgensen splitting of compounds of the general composition  $\begin{bmatrix} AH & NH_3 \\ Pt & AH \end{bmatrix} Cl_2 s$ 

Amino acid	Composition according to Jörgensen splitting		yield,%	
	diammine %	dichloride %	diammine	dichloride
1,2-G1H	100	0	92	0
1,2-AnH	100	0	90	0
1,2-BH	100	0	. 91	0
1,2-LH	100	0	88	0

Different Courses of the Jörgensen Splitting of Acyclic Compounds of Bivalent Platinum With α- and ω-Amino Acids

S/078/60/005/007/021/043/XX B004/B060

Continuation of the table

Amino acid	Composition according to Jörgensen splitting				1d,%
	diammine %	dichloride %	diammine	dichloride	
1,3-:H	55	45	51	29	
1,4-/出	37	63	35	37	
1,6=-H	20	80	22	50	
1,7-EH	16	84	18	50	

The author infers from these data that the separation of the A-AH group from platinum, as compared with the  $\alpha$ -AH group, is made increasingly difficult with increasing distance between NH<sub>2</sub> group and COOH group, this being related to the decrease of acidity in the dipolar NH<sub>3</sub>RCO<sub>2</sub> ion. The splitting brought about by means of KBr instead of HCl is briefly described, and it is stated that PtBr<sub>2</sub>(NH<sub>3</sub>)<sub>2</sub> was obtained from BH,  $\beta$ H,  $\beta$ H, and  $\beta$ H, in yields of 89, 44, 34, and 17%. Both trans- and cis-forms were obtained from  $\alpha$ -amino acids on the splitting of cis-compounds

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Different Courses of the Jörgensen Splitting S/078/60/005/007/021/043/ $\chi\chi$  of Acyclic Compounds of Bivalent Platinum B004/B060 With  $\alpha$ - and  $\omega$ -Amino Acids

NH3 Pt Cl2. but only trans-compounds with SH. The experimental part of NH3 AH

the investigation was carried out by N. S. Velikanova, M. P. Mogilevkina, and I. O. Volodina. There are 1 table and 19 references: 13 Soviet, 2 US, 1 British, 2 French, and 1 Japanese.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut im.

F. E. D'erzhinskogo (Dnepropetrovsk Institute of Chemical Technology imeni F. E. Dzerzhinskiy)

SUBMITTED: March 16, 1959

Card 4/4

VOLSHTEYN, L.M.: MOTTAGINA, G.G.

Multistage conversion of diglycyldiglycylplatimum into an inner complex salt. Zhur. neorg. khim. 5 no.8:1730-1734 Ag 160.

(MIRA 13:9)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. R.E. Dzerzhinskogo. (Platinum compounds)

(MIRA 13:11)

VOLSHTEYN, L.M.: VOLODINA, I.O. Complex compounds of divalent platinum with glycocoll. Zhur. neorg.khim. 5 no.9:1948-1953 S '60. (MIRA 13

1. Depropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E. Dzerzhinskogo.

(Platinum compounds) (Glycine)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

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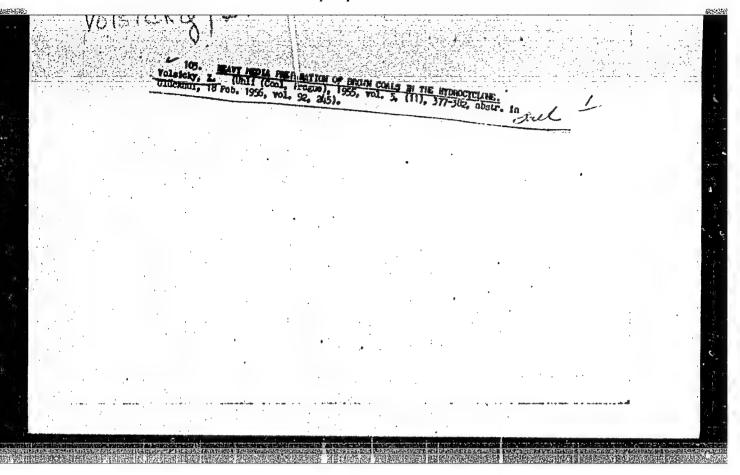
VCISICKY, Z.

VOLSICKY, Z. Washing of lignite in the cyclone. p. 377.

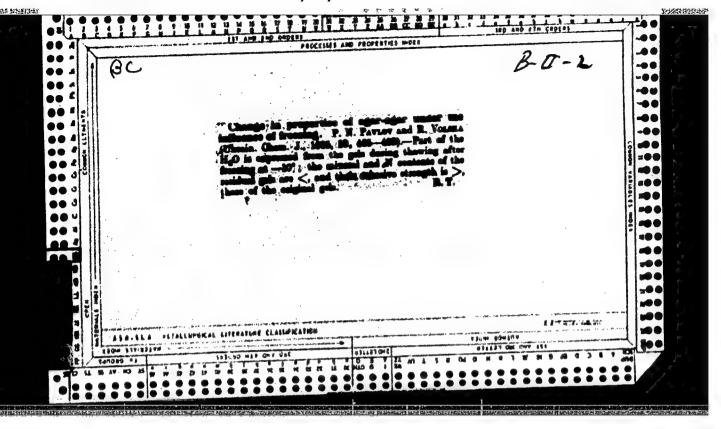
Vol. 5, No. 111 Nov. 1955 UHLI TECHNOLOGY Praha, Czechoslovakia

So: East Europeon Accessions, Vol. 5, No. 5, May 1956

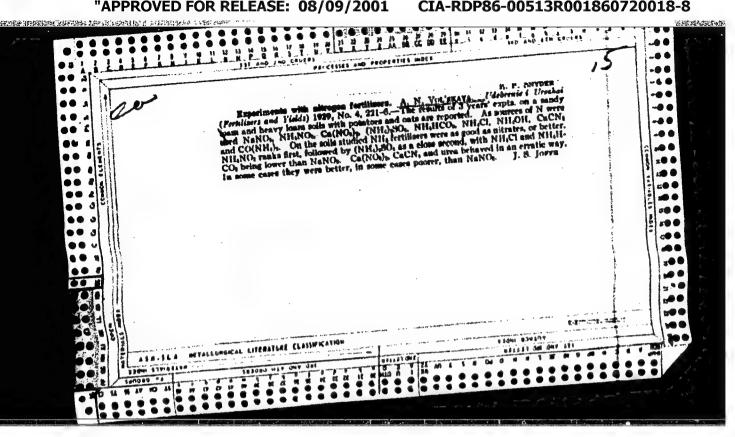
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CIA-RDP86-00513R001860720018-8

L 7007-66

ACC NR: AP5026804

SOURCE CODE: UR/0286/65/000/017/0086/0086

INVENTOR: Kryukov, P. A.; Vol'skaya, A. G.; Sinkin, V. I.

54 8

ORG: none

MP

TITLE: A device for measuring the electrical conductivity of solutions at ultrahigh pressures. Class 42, No. 174421 [announced by Institute of Inorganic Chemistry, Siberian Department AN SSSR (Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 86

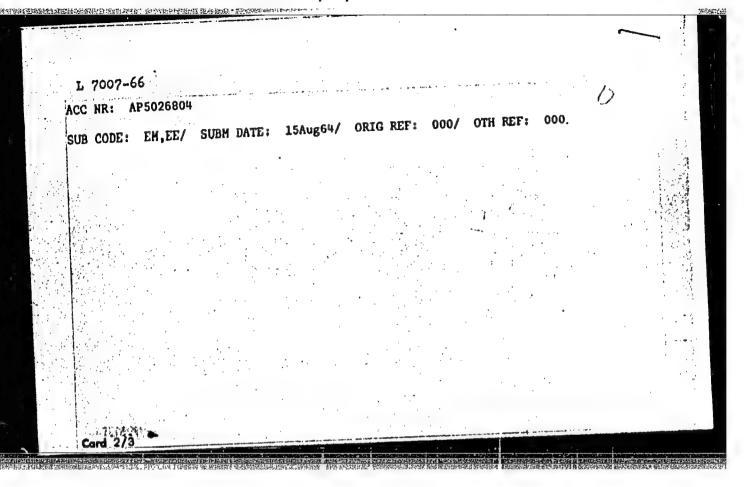
TOPIC TAGS: electric conductivity, electric measuring instrument, high pressure

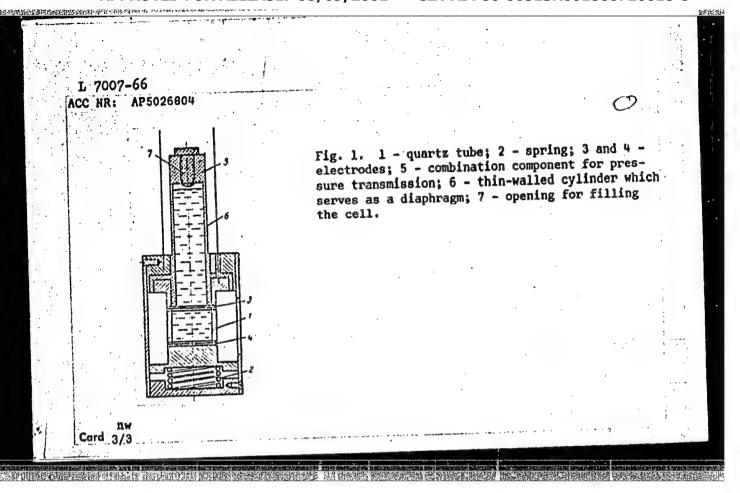
ABSTRACT: This Inventor's Certificate introduces a device for measuring the electrical conductivity of solutions at ultrahigh pressures. The instrument is a cell with two electrodes and a device for balancing the pressure inside and outside the cell. Accuracy is improved and measurement limits are increased by pressing the electrodes to the ends of the cell (which may be made of quartz) and making an opening in one of the electrodes to connect the interior of the cell with an auxiliary cavity with a diaphragm for pressure balance.

**Card 1/3** 

UDC: 543.257.5

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ZHBANKOVA, Inessa Ivanovna; SANUSKEVICH, A.V., kand. fil. nauk, red.; VOL'SKAYA, G., red.

中的各种,其它自然是1987年中,在各种人的自然和原则,更是各种人。

[Development in inorganic nature] O razvitii v neorganicheskoi prirode. Minsk, Nauka, i tekhnika, 1964. 150 p. (MIRA 18:1)

VOL'SKAYA, L., inzh.; PAVIOV, R., inzh.; SHCHERRAKOV, V., inzh.

Standard series of automatic equipment for refrigerating machines

[with summary in English]. Khol. tekh. 35 no.4:39-44 Jl-Ag 158.

(MIRA 11:10)

1.TSentral'noye konstruktorskoye byuro kholodil'nogo mashikostroyeniya.
(Refrigeration and refrigerating machinery)

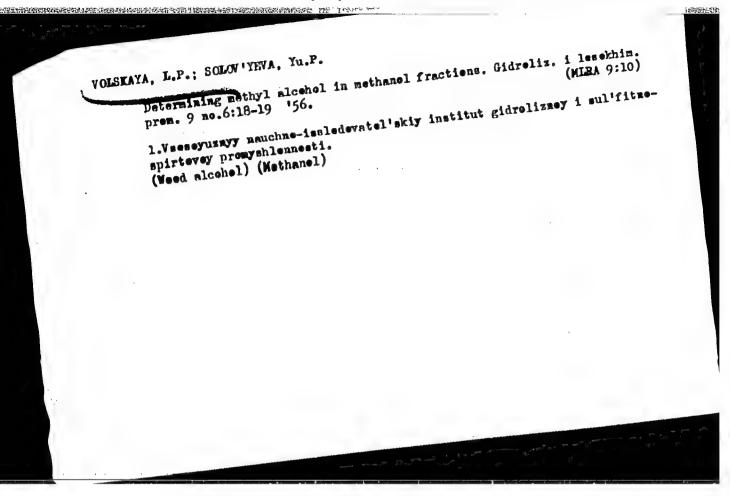
TSIRLIN, B., inshener; SENYAOIN, Yu.; YOL'SKAYA, L., inshener.

Testing temperature control valves. Inol.tekh.33 m.,1:16-21

[MRA 9:7)

Ja-Nr '56.

(Refrigeration and refrigerating machinery—Testing)



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

- CHALOV, N.V.; VOLSKAYA, L.P.
- USSR (600)
- Purification of waste water containing phenois, aldehydes, and methyl alcohol. Water - Purification
- Zhur. prikl, khim. 25 no.10, 1952.

1953. Unclassified. January Monthly List of Russian Accessions, Library of Congress,

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

BADYL'KES, I.S., prof., doktor tekhn.nauk; BUKHTER, Ye.Z., inzh.; VEYNBERG, B.S., kand.tekhn.nouk; VOL'SKAYA, L.S., inzh.; GERSH, S.Ya., prof., doktor tekhn.nauk [deceased]; GUREVICH, Ye.S., inzh.; DANILOVA, G.N., kand.tekhn.nauk; YEPIMOVA, Ye.V., inzh.; IOFFE, D.M., kand. tekhn. nauk; KAN, K.D., kand. tekhn. nauk; LAVROVA, V.V., insh.; MEDOVAR, L.Ye., insh.; ROZENFEL'D, L.M., prof., doktor tekhn. nauk; TKACHEV, A.G., prof., doktor tekhn.nauk; TSYRLIN, B.L.; SHUMELISHSKIY, M.G., inzh.; SHCHERBAKOV, V.S., inzh.; YAKOBSON, V.B., kand.tekhn.nauk; GOGOLIN, A.A., retsenzent; GUKHMAN, A.A., retsenzent; KARPOV, A.V., retsenzent; KURYLEV, Ye,S., retsenzent; LIVSKITS, K.B., retenment; Chimilian, J.M., reteenzent; SHKYNILIN, A.Ye., retsenzent; SHEMSHEDINOV, G.A., retsenzont; PAVLOV, R.V., spetsred.; KOBULASIVILI, Sh.N., glavnyy red.; RICTOV, D.G., zam.glavnogo red.; GOLOVKIN, N.A., red.; CHIZHOV, G.B., red.; HAZAROV, B.A., glavnyy red.izd-va; NIKOLAYEVA, N.G., red.; EYDINOVA, S.G., mladshiy red.; MEDRISH, D.M., tekhn.red.

[Refrigeration engineering; encyclopedic reference book in three volumes] Kholodil naia tekhnika; entsiklopedicheskii spravochnik v trekh knigakh. Glav.red. Sh.N.Kobulashvili i dr. Leningrad, Gostorgizdat. Vol.1. [Techniques of the production of artificial cold] Tekhnika proizvodstva iskusstvennogo kholods. 1960. 544 p. (MIRA 13:12)

(Refrigeration and refrigerating machinery)

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ALEKSANDROV, S.V.---(continued) Gard 2.

1. Vasacoyuznyy institut rasteniyevodstva (for Sachkarev, Lizgunova, Brezhnev, Gazanbush, Mashcharov, Filov, Tkachanko, Kazakova, Krasochkin, Levandovskaya, Shebalina, Syskova, Makasheva, Ivanov, Martynov, Giranko, Ivanova, Shilova). 2. Gribovskaya ovoshchnaya selektsionnaya opytnaya stantsiya; chleny-korrespondenty Vasacoyuznoy akademii sel'skokhoxyaystvennykh nauk im. V.I.Lenina (for Alpat'yov, Solov'yeva). 3. Deystvitel'nyy chlen Vasacoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Brozhnev).

(Vagotables--Varieties)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

TSINZERLING, Ye.V.; VOL'SKAYA, O.B.

Determining the sign of rotation of the rolarization plane in quartz from the etching figures on the base. \*ristallografiia 10 no.1:116-118 Ja-F \*65. (MIRA 18:3)

l. Institut kristallografii AN SSSR.

VOL'SKAYA, B. urach-podyyatar. In order that mothers might work. Rab. i sial. no.9:16 \$ '55.

(NLRA 9:1)

最优别的大型大型的特殊的

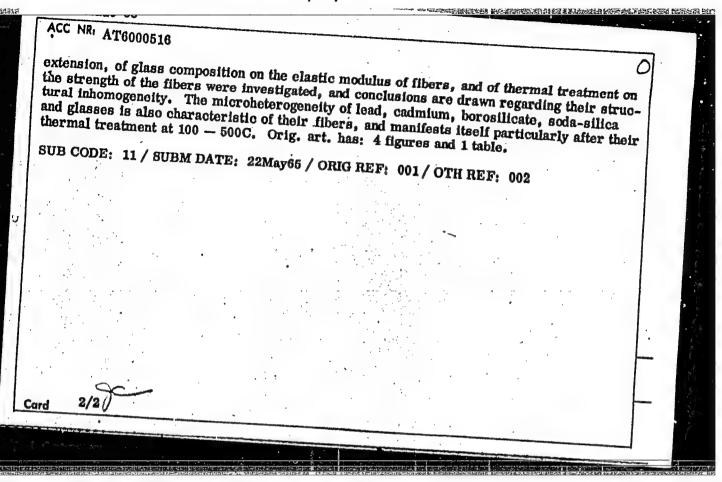
VOL'SKAYA, R., detskiy vrach Nutrition of and care for infants of eight and nine months. Rab.i sial. 38 no.3:19-20 Mr 162. (MIRA 15:2)

(INFANTS)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

EWP(a)/EWT(m)/EWP(b) ACC NR: AT6000516 WW/GS/WH SOURCE CODE: UR/0000/65/000/000/0428/0431 AUTHOR: Aslanova, M.S.; Vol'skaya, S.Z. ORG: none 6.44.55 TITLE: Strength and structure of borate, cadmium, and lead glass fibers SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya, Leningrad, Izd-vo TOPIC TAGS: glass fiber, glass property, borate glass, silicate glass ABSTRACT: In order to determine the relationship between the strength and structure of glass fibers, continuous fibers in the systems CdO-B2O3-Al2O3-SiO2, B2O3-CaO-Al2O3-SiO2 and PbO-CdO-B<sub>2</sub>O<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> were studied. Glasa fibers containing up to 45.5 mole % CdO and PbO with a low SiO2 content (16.3 mole %, called cadmium and lead fibers) and fibers with a high boric anhydride content (70 mole %, called borate fibers) were prepared. Cadmium fibers were found to be stronger than lead ones, owing to the higher strength of the Cd-O bond. Borate fibers had a strength similar to that of lead ones. Fibers made of alkali-free aluminum and lead fibers showed values of no more than 200 — 250 kg/mm<sup>2</sup>), whereas cadmium, borate, the content of moisture on the extension of fibers, of chemical composition on the deformation of fibers in

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CHERNYAK, M.G.; ASLANOVA, M.S.; VOL'SKAYA, S.Z.; KUTUKOV, S.S.; SIMAKOV, D.P.; NAYDUS, G.G.; BOVKUNENKO, A.N.; KOVALEV, N.N.; SHKOL'NIKOV, Ya.A.; ZHIVOV, L.G.; KOVALEV, N.P.; KOZHUKHOVA, N.V.; KOROLEVA, A.Ye.; VINOGRADOVA, A.M.; OSIPOVA, O.M.; BADALOVA, E.I.; BRONSHTEYN, Z.I.; L'VOV, B.S.; KRYUCHKOV, N.N.; BLOKH, K.I.; MASHINSKAYA, N.I., red.

[Continuous filament glass fibers; technology fundamentals and their properties] Nepreryvnoe stekliannoe volokno; osnovy tekhnologii i svoistva. Moskva, Khimija, 1965. 319 p.

(MIRA 18:8)

ASLANOVA, M. S.; VOLSKAYA, S. Z.

"Strength and structure of fibres made of borate, cadmium and lead glasses."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,
16-21 Mar 64.

## "APPROVED FOR RELEASE: 08/09/2001

### CIA-RDP86-00513R001860720018-8

VOL'SKAYA, V. M.

Cand. Med. Sci.

Dissertation: "Collateral Blood Circulation of the Shank in the Case of Ligation of the Artery under the knee and shank vessels."

22/5/50
First Moscow Order of Lenin Medical Inst.

SO Vecheryaya Moskva Sum 71

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

Volumery multiple cancer of the stouch. Enlarging AS no. 8:61-75
Ag 464.

1. Poliklinicheskoye otdeleniye (new. - kund. med. rauk V.F. Femidov)
Cakologicheskogo instituta imeni P.A. Gertsena (dir. - prof. h.H.
Novikov), Paskva.

## "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001860720018-8

- 1. VOL'SKAYA, V. M.
- 2. USSR (600)
- 4. Arteries Ligature
- Anatomical basis for the level of ligation of the populateal artery and of leg vessels. Arkh. anat. gist. i embr. 30, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

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Ferromagnetic phases in the products of nickel ferricyanide thermal decomposition. Zhuraneorg. Natus. 10 no.12:2695-2697 D 165. (MINA 19:1)

1. Universitet imini L.Mitskevicha, laboratoriya magnitokhim.; Poznan', Pol'sha.

VOLUME, V. [Welski, W.]; PULITANUSEA, U. [Politanska, U.]

Ferromagnetic properties of a product obtained by teiling nickel hydroxide gels and iron. Zhur.prikl.khim. 38 no.31667-668 Mr '65. (MIRA 18:11)

1. Laboratoriya magnitekhimii universitata imeni Adama Mitakovicha, Poznan'. Submitted June 29, 1964.

VOLISKIS, G. T.

"A Study of the Fascioliasic Foci in the Former Klaypedskaya and Shaulyayskaya Chlasts of the Lithuanian SSR. " Cand Vet Sci, Inst of Biology, Acad Sci Lithuanian SSR, Vil'nyus, 1953. (RZhBiol, No 3, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

SPINU, I.; MARCOVICI, M.; CALOMFIRESCO, Al.; VOLSKI, V.

Study of antipoliomyelitis vactination with live virus in the city of Bucharest. Arch. roum. path. exp. microbiol. 21 no.1:15-18 Mr '62.

1. Travail de l'Institut "Dr. I. Cantacuzino" - Service de la Poliomyelite.

(POLIOVIRUS VACCINE, ORAL)

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VOL'SKIY, A., inzh.

New materials and products. Stroitel' no.1:23-24 Ja '59.

(MIRA 12:3)

(Building materials)

VOL'SKIY, A., inzhener.

Simple method for heating open pits in winter. Stroitel' no.12:19 D '56.

(Clay) (Heating)

VOL'SKIY, A.G.; LEGOSTAYEV, G.S.; ROMANNIKOV, F., red.

[Fire springs] Ognemnye rodniki. Lipetsk, Lipetskoe
knizhnoe izd-vo, 1963. 49 p. (MIRA 17:4)

YOL! SKIY Aleksandr Konstantinovich; ALRESANDROV, L.A., redaktor; TIKHONOVA, Ye.A., tekhnicheskiy redaktor

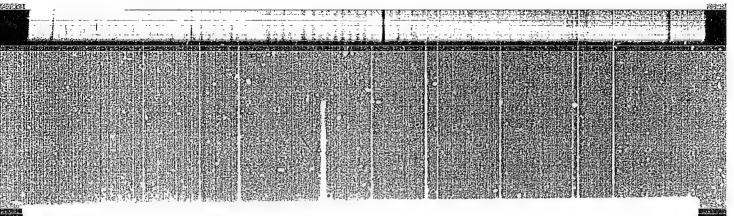
[Methods of water purification for seagoing vessels] Metody vodopodgotovki na morskikh sudakh. Moskva, Izd-vo "Morskoi transport," 1956, 59 p. (MLRA 9:10)

STERLIN, Yakov Moiseyevich, kand. tekhn. nauk; VOL'SKIY, A.N., akademik, red.; PANASENKOVA, Ye.I., red.; POPOVA, S.M., tekhn. red.

[Metallurgy of uranium] Metallurgiia urana. Pod obshchei red.
A.N.Vol'skogo. Moskva, Gosatomizdat, 1962. 418 p.

(Uranium-Metallurgy)

(Uranium-Metallurgy)



AUTHORS:

Vantlenko B.D., Vol'akiy, A.N.

301/78-3-7-6/44

TITLE:

The Thermodynamics of the Chlorination Reactions of Zirconium Dioxide With Gaseous Chlorine (Termodinamika reaktsiy khlorinowaniya dwuokisi tsirkoniya gasoobraznym khlorom)

PERIODICAL:

Zhurmal neorganicheskoy khimii, 1958, Vol. 3, Nr 7, pp. 1497-1504

(USSR)

ABSTRACT:

On the basis of a thermodynamic analysis the chlorination reaction of zirconium dioxide with gaseous chlorine was investigated with the following results: Oblorination of zirconium dioxide develops. They unfavorable even at high temperatures (1000-1500°C). At temperatures of 500-1000°C the reaction products in a mixture of zirconium dicults with solid carbon are not in equilibrium with chlorine even in the case of a chlorine concentration of 10°7 vol/%.

of solid carbon devalues according to the following equation:

 $1/2 2 \times 10^{2} + 1/2 + 1/2 + 1/2 \times 1/2 \times$ 

Card 1/2

At temperatures above 700°C colorination develops mainly according to the following equation: 1/2 ZrO<sub>2</sub> + C + Cl<sub>2</sub> = 1/2 ZrCl<sub>1</sub>+CC.

The Thermodynamics of the Oblorination Resolions of Zirconium Dioxide With Gastous Chlorins

501/78-3-7-6/44

At temperatures of 1000°C obligation of ziroonium orida develops antiraly in assoriance with the second-mentioned equation. In the chlorination of sixponium oxide with solid carbon ZrCl4, Cl<sub>2</sub>, CO<sub>2</sub> and CO salet in the gaseous phase. Besides, also phoseser (COCI\_) comers in the gaseous phase. There are 2 figures, 10 hables, and 7 auterences, 6 of which are Soviet.

ASSOCIATION:

Moskowskiy institut tersinykh metallov i zolota im. M.I. Kalinina (Mescow Institute of Newferrous Metals and Gold iment M. I. Kalinin)

SUBMITTED:

Juna 8, 1957

1. Zirvonium dioxide -- Analysis 2. Zirconium dioxide -- Chlorination 3. Chlorine -- Thermochemistry 4. Temperature -- Effectiviness

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860720018-8"

SOV/137-58-8-16720

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 70 (USSR)

AUTHORS: Vasilenko, B.D., Vol'skiy, A.N.

TITLE: Chlorination of Zirconium Dioxide by Gaseous Chlorine in the

Presence of Solid Carbon (K voprosu o khlorirovanii dvuokisi tsirkoniya gazoobraznym khlorom v prisutstvii tverdogo ugle-

roda)

PERIODICAL: Sb. nauchn. t-r. Mosk. in-t tsvetn. met. i zolota, 1957, Nr

27, pp 119-135

ABSTRACT: A study is made of the relationship between the rate of

chlorination of briquets of a mixture of ZrO2 and soot on the one hand and a series of factors and the composition of the gas phase in chlorination on the other. It is established that in this process the C may oxidize to CO2 or to CO, the latter of which acts to reduce the ZrO2. The rate of chlorination in the presence of CO is almost fifty per cent less than with solid C at the same Cl2 consumption. When the briquets are chlorinated

with solid C, the CO/CO<sub>2</sub> ratio in the gas phase rises with increasing temperature, attaining a value of 5 at 1000°C and a

Card 1/2 ZrO<sub>2</sub>:C molecular ratio of 1:2. Three regions of dependence

SOV/137-58-8-16720

Chlorination of Zirconium Dioxide by Gaseous Chlorine (cont.)

of chlorination rate upon temperature are noted: A kinetic interval up to  $520^{\circ}$ , an intermediate from 520 to  $700^{\circ}$ , and a diffusive at  $>700^{\circ}$ . Mathematical expressions for the relationship between the chlorination rate and the partial pressure of the  $Cl_2$  and the rate of flow of the  $Cl_2$  are presented. The temperature of the chlorination process is  $700^{\circ}$ .

L.P.

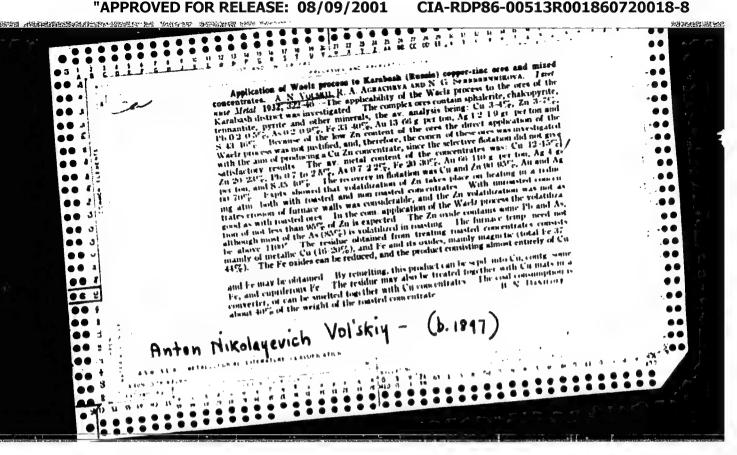
- 1. Wirconium or ide-Oh crin then
- 2. Chlorine-Chemical reactions
- 3. Carbon-Applications

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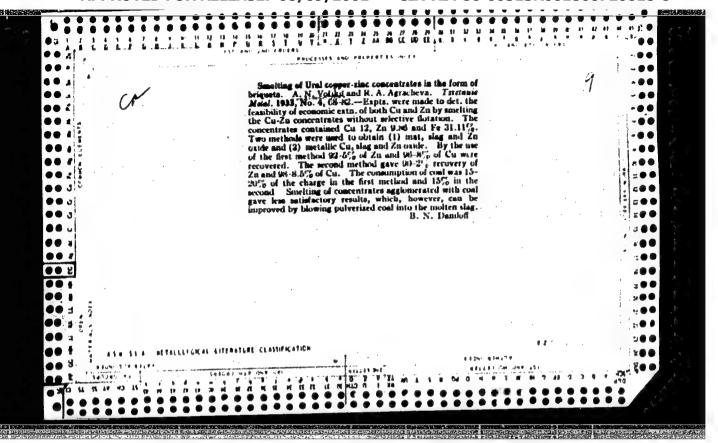
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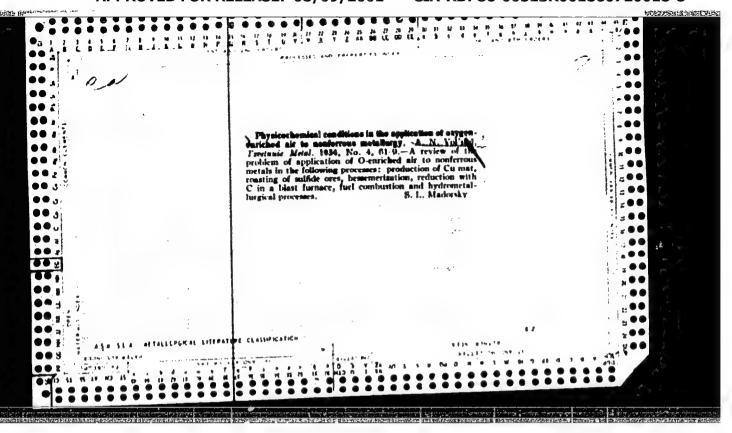
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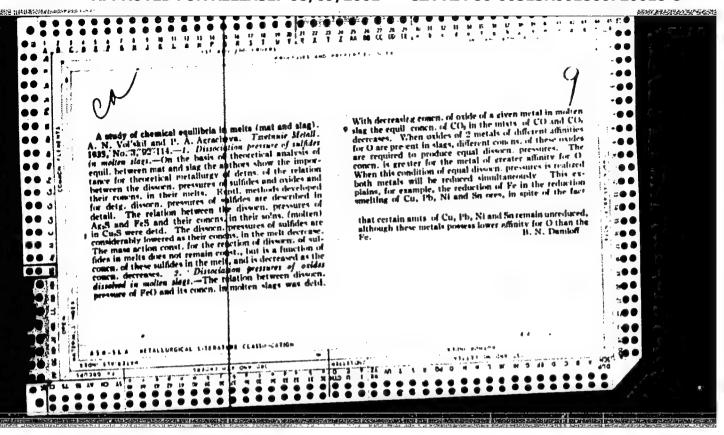


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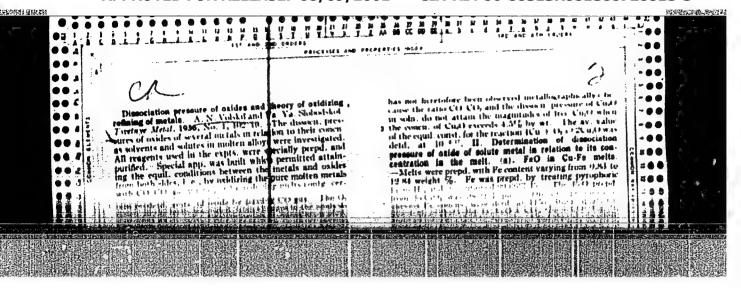


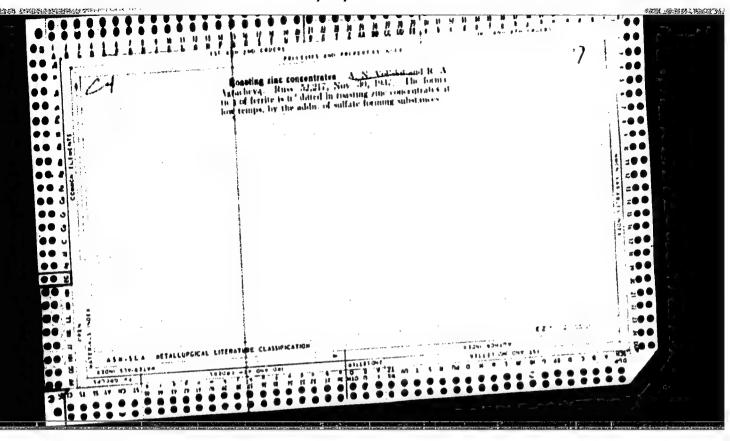
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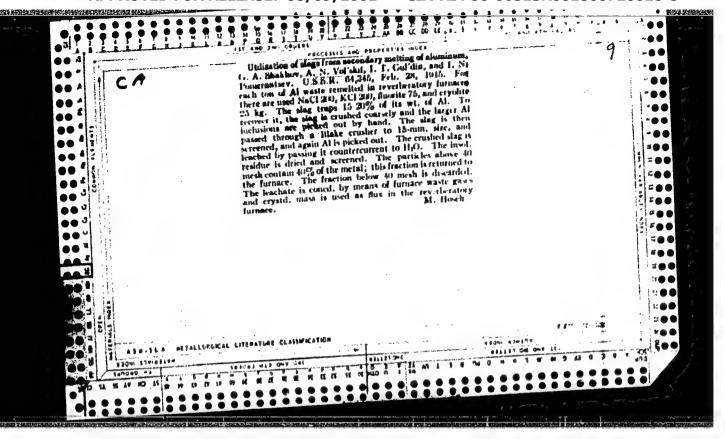




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VOLSKIY, N. I.

TECHNOLOGY.

(Machineability of materials by grinding). Leningrad. Gos. nauchno-tekh, izd-vo machinostroit. lit-ry, 1950.

9. Monthly List of Russian Accessions, Library of Congress, July 195/2 Uncl

VOLERTY, II. 1.

VOLERTY, II. 1. -- "MACHINING OF METALS BY FOLIDHING." SUB-12 Jun 52, Process Machine-Tool and Tool Inst Heri I. V. Stalin (Discontation for the Desire of Scotol in Technical Sciences)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

1.1100 only 2808

S/123/60/000/017/003/016 A005/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 17, p. 100. # 92248

AUTHOR x

Volskiy, N.I.

TITLE:

On the Problem of Completeness of a Metal Layer Removal From an Article at Cylindrical Grinding

PERIODICAL:

Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 50, pp. 67.71

TEXT: The grinding performance can be evaluated by the coefficient  $\mathcal{E}_1$  characterizing the cutting completeness degree and representing the ratio of the total possible area of cutting from an article with the disk grains per time unit to the area of the article passed under the disk grains during the same time unit. The coefficient  $\mathcal{E}_1$  is expressed by the equation:

 $\xi_1 = \frac{B \, V_{\text{per}} \, 0.02 \, \sqrt[3]{K^2} \, F_{\text{scr}}}{d_{\text{gr}}^2 \, \pi \, d_{\text{ar}} \, V_1}$ 

N

Here are: B the width of the disk in mm;  $V_{per}$  the peripheral speed of the disk Card 1/2

B.I.M.

S/123/60/000/017/003/016 A005/A001

On the Problem of Completeness of a Metal Layer Removal From an Article at Cylindrical Grinding

in mm/sec; k the percentage of grains in the disk;  $d_{gr}$  the grain diameter in mm,  $d_{ar}$  the article diameter in mm;  $V_1$  the lengthwise motion speed of the table in mm/sec;  $F_{scr}$  the scratch area of the grain on the article surface in mm. It follows from the formula that it is more advantageous for better cutting completeness of the metal layer to use a tool with finer grains and smaller cutting depth than with coarser grains and large cutting depth. The formulae are also given for determining  $F_{scr}$ . There is 1 figure.

Translator's note: Subscripts per (peripheral), gr (grain), ar (article), 1 (lengthwise), scr (scratch) are translations of the original Κρ (krug), 3 (zerno), ИЗ (izdeliye) Πρ (prodol'nyy), ų (tsarapina).

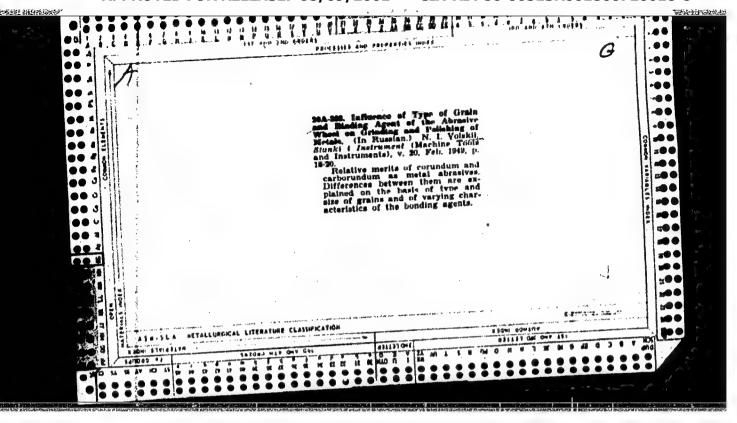
Translator's note: This is the full translation of the original Russian at stract.

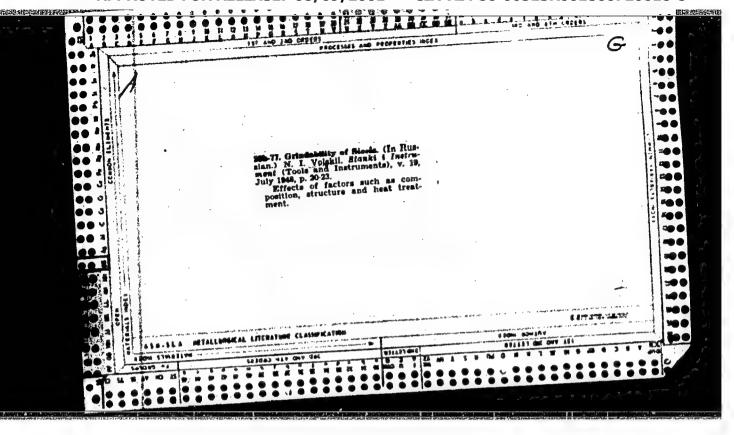
Card 2/2

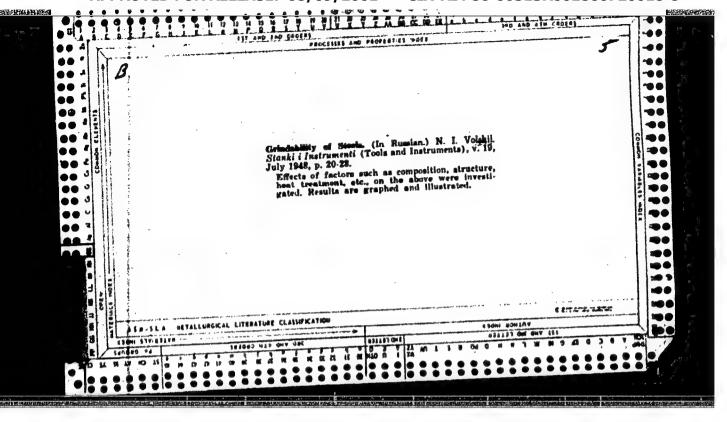
VOLSKIY, N. I.

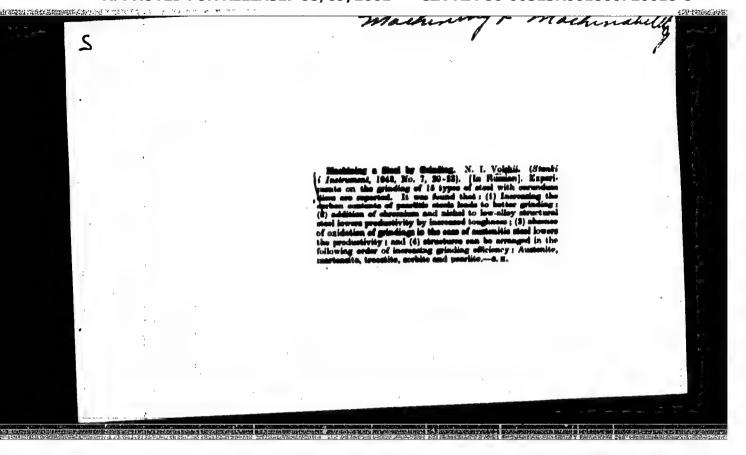
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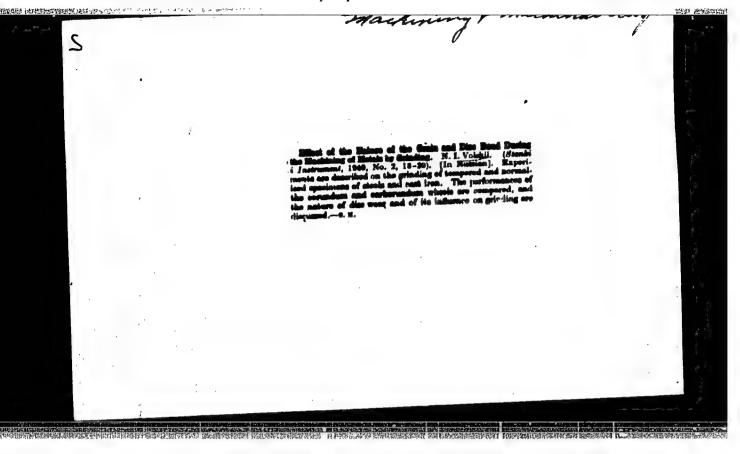
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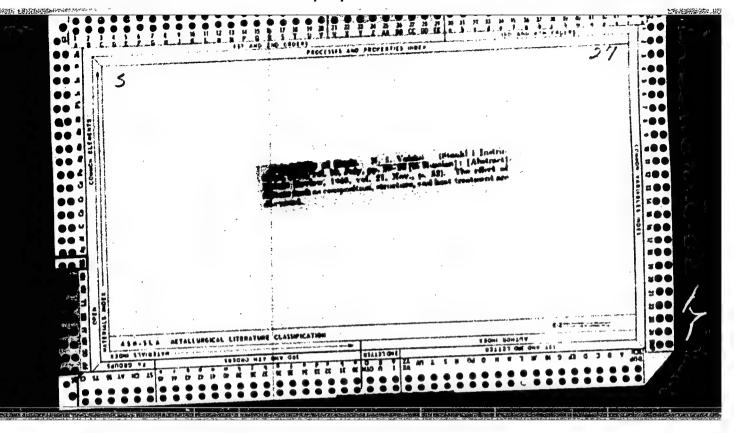


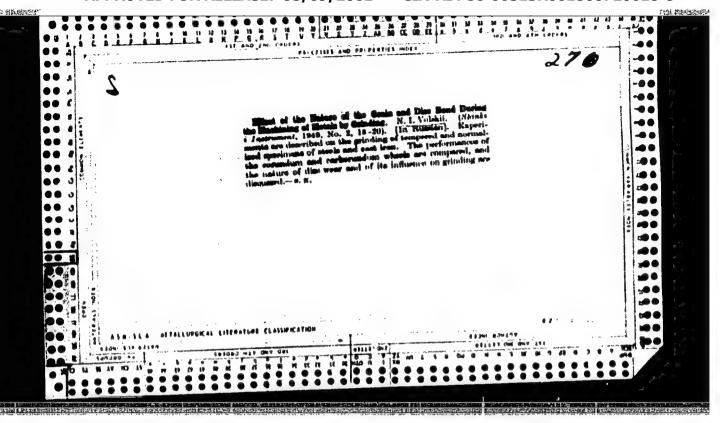


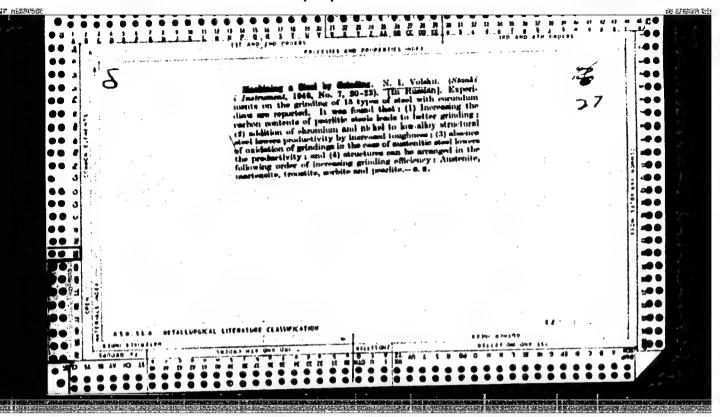












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### CIA-RDP86-00513R001860720018-8

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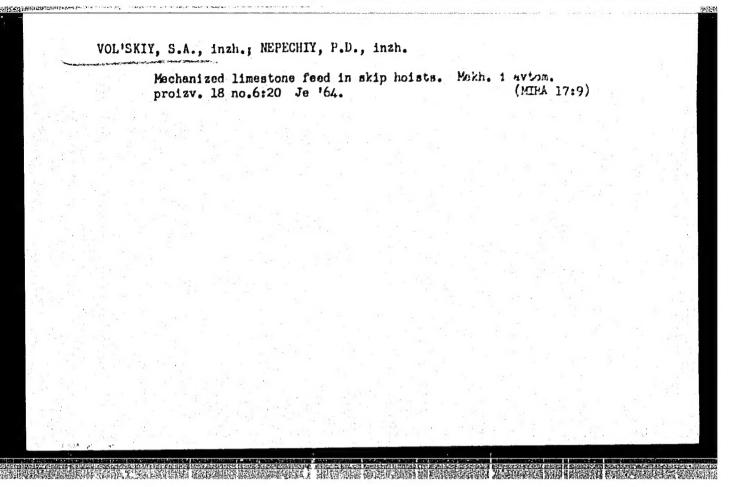
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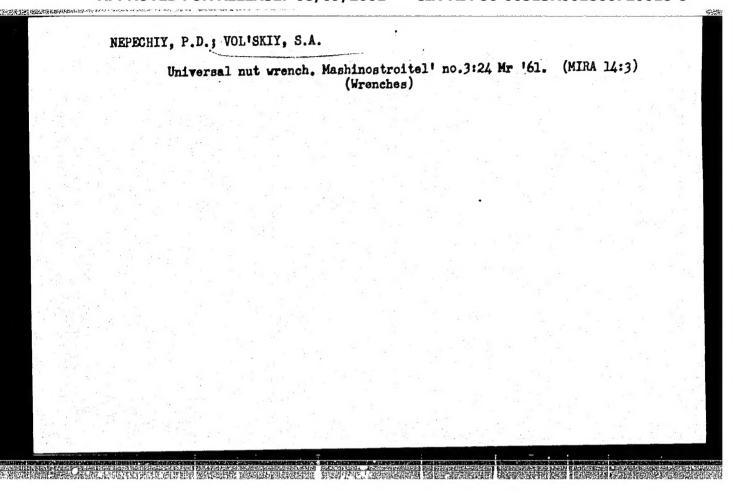
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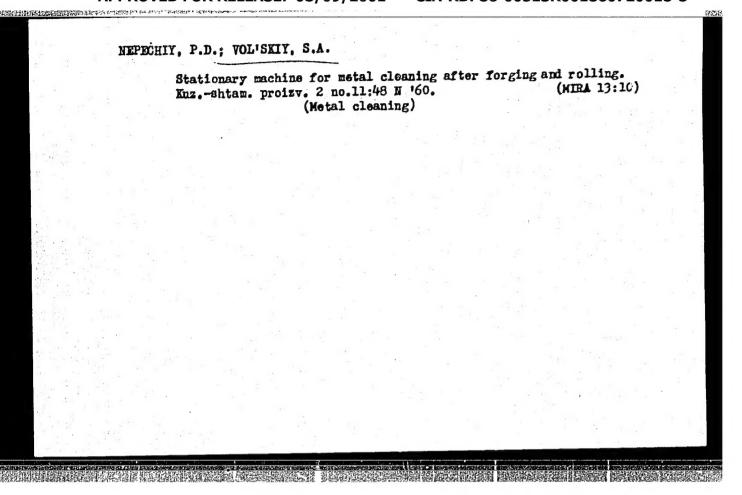
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